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Figure 1

-150 -TGGGCTCAGCCACGCCCCAGGGTGGCCCCAGTGGGACTAGTTCTTCATTCTGCGAGCTGCACACATCTGTCACTGAGGGAATGTCAAGTC
-60 -TCTCACTCTCCTCTCCTCACTATCTTTCCGAGAAAGCGGGTCTCTCTGCTTGTGCGAGTATGGACGACCCGGACTGCGATTCCACCTGG
MetAspAspProAspCysAspSerThrTrp 10

31 -CAGCAGGAGAGCGAGGAGCATGCCGAGGATGCCAGGCGGATGATACGACCGATGAGGACAGGGCGACCATGACGGCGACGCGGAGGAG
GluGluGluSerGluGluAspGlyGluAspGlyGlnAlaAspAspThrThrAspGluAspThrGlyAspAspAspGlyAspAlaGluGlu 40

121 -GCACGGCCAAGCCTGTTCCAGTCCAGGATGACAGCGGTACCGAACTGCGGTCTATGACAGGACATGCAAGATACCGGCACAACCTACCCG
AlaArgProSerLeuPheGlnSerArgMetThrGlyTyrArgAsnTrpArgAlaMetGlnAspMetGlnArgTyrArgHisAsnTyrPro 70

211 -GATTTGACAGATCAAGACTCCAATGGTGACATGTGCAACCTGAGCTTCTACAAAAATGAGATCTGCTTCCAGCCAAATGGGGCTCTCATC
AspLeuThrAspGlnAspCysAsnGlyAspMetCysAsnLeuSerPheTyrLysAsnGluIleCysPheGlnProAsnGlyAlaLeuIle 100

301 -CAGGACATTCTTCAGAACTGCAAGACAACCTATGACCTCCTGCAAGAGAATCACTCCTACATCCAGTGGCTGTTTCTCTCTCGGGGAACCA
GluAspIleLeuGlnAsnTrpLysAspAsnTyrAspLeuLeuGluGluAsnHisSerTyrIleGlnTrpLeuPheProLeuArgGluPro 130

391 -GGAGTGAAGTGGCAGCCCAAGCCCTCACCTGCAAGGAGGTTGAGGCATTTAAAGCTCCAAGGAAGTCAGAGAGCGTCTTGTCCGGGGC
GlyValAsnTrpHisAlaLysProLeuThrLeuLysGluValGluAlaPheLysSerSerLysGluValArgGluArgLeuValArgAla 160

481 -TATGAGCTCATGCTGGGCTTCTATGGGTTCACCTTGAGGACCGGGGCACGGGTGCTGTATGCCGTGCACAGAACTTCCAGCCCGGCTTC
TyrGluLeuMetLeuGlyPheTyrGlyPheHisLeuGluAspArgGlyThrGlyAlaValCysArgAlaGlnAsnPheGlnProArgPhe 190

571 -CACAACTCTGAACAGCCACAGCCACAACCTGCGTATTACAGCATCTCTCAAGTCACTGGGTGAGCTGGGCTTAGAACACTACCAGGCA
HisAsnLeuAsnSerHisSerHisAsnAsnLeuArgIleThrArgIleLeuLysSerLeuGlyGluLeuGlyLeuGluHisTyrGlnAla 220

661 -CCCCGGTCCGCTTCTTCTGAGGAGACCCCTTGTACAGCACAACCTGCCACGGTGGCCAGAGTGGCCCTGGACTACTTCTGTTCCGCT
ProLeuValArgPhePheLeuGluGluThrLeuValGlnHisLysLeuProSerValArgGlnSerAlaLeuAspTyrPheLeuPheAla 250

751 -GTGCGCTGCGGGCACCAGCGCGGGAGCTTGTGTACTTTGCTTGGGAGCACTTCAAGCTCGCCGAGAGTTGTCTGGGGGCCCCGTGAC
ValArgCysArgHisGlnArgArgGluLeuValTyrPheAlaTrpGluHisPheLysProArgArgGluPheValTrpGlyProArgAsp 280

841 -AAGCTGCGGAGATTCAAGCCCCAGACCATACCCACGCCACTGACGGGACCCAGGGCAGGATAAAGATGAGGGCTCCAGGGACCCCTCC
LysLeuArgArgPheLysProGlnThrIleProGlnProLeuThrGlyProGlyGlnAlaAspLysAspGluGlySerArgAspProSer 310

931 -AAGAGCCTGCGACCCAGCGTCCGACCTGTGGATCTGCAAGGGACCTGAGTGGGACAGTGGAACAGCTGAGGATCCCTCACTGCTGAAC
GlnGluAlaGlyThrGlnGlyArgThrCysGlySerGlyArgAspLeuSerGlyAspSerGlyThrAlaGluAspProSerLeuLeuAsn 340

1021 -ACAAAGCCCTCAGATGGGGGAACCTTGGATGGGAACCAGAGGATGAAGCTAAGTCCCTGAGTCCCAAGGAGAGCAAGAAAAGGAAGTTG
ThrLysProSerAspGlyGlyThrLeuAspGlyAsnGlnArgAspGluAlaLysSerLeuSerProLysGluSerLysLysArgLysLeu 370

1111 -GAGGGGAACAGGCAGGAGCAGGTCCACGGGAGGCGAGATCCCCAGGGTGTCTCTGAGGTAGAGAAAATTGCCCTTAACCTTGAGGAGTGT
GluGlyAsnArgGlnGluGlnValProGlyGluAlaAspProGlnGlyValSerGluValGluLysIleAlaLeuAsnLeuGluGluCys 400

1201 -GCCCTTAGCCCTATCAGCCAGGAGCCCGGGAGGCTGAACCGCCCTGTCTGTGGCCAGGCTGGCTAATGAGGTAAGAAAGCGGACGAG
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1291 -GTGAGGAAGGGGCTGAGGCTGATGGAGTAGTCAGTAACACTCAAATGCAGGCCAGTGCCTGCCTCCTACCCCTTCAGAGTGTCTCTGAG
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1381 -GCCCCAAAGGATGGGAATGGGCCAGAGGACTCAAACAGCCAGGTTGGGGCAGAGGATTCAAAAGCCAGGTGGGGCCGGAGGATCCAAAC
AlaGlnLysAspGlyAsnGlyProGluAspSerAsnSerGlnValGlyAlaGluAspSerLysSerGlnValGlyProGluAspProAsn 490

1471 -AGCCAGGTGGGGCTGAGGACCCAAACAGCCAGGTGGGGCAGAGGACCCAAACAGCCAGGTGGGGCCAGAGGACCCAAACAGCCAGGTG
SerGlnValGlyLeuGluAspProAsnSerGlnValGlyProGluAspProAsnSerGlnValGlyProGluAspProAsnSerGlnVal 520

1561 -GGGCCAGAGGACCCAAACAGCCAGGTGGGGCCAGAGGACCCAAACAGCCAGGTGGTGGGGCCAGAGCAAGCTGCCTCTAAGAGCCCTGTG
GlyProGluAspProAsnSerGlnValGlyProGluAspProAsnSerGlnValGlyProGluGlnAlaAlaSerLysSerProVal 550

1651 -GAGGACCTGACTCTGACACTATGGGAACCTCAGTGGATGAGTCAGAGGAGTGGCAAGGATTGAGGCTCTGCTGAACCCCCAAAGCCT
GluAspProAspSerAspThrMetGlyThrSerValAspGluSerGluGluLeuAlaArgIleGluAlaSerAlaGluProProLysPro 580

1741 -TAGAGGTGCATCTCAGTCTACTCAGCCCACTGCAGGGGGTTTCTGAGTCCAGAGCTCTGCCGTAGGCTCTTCTTGGTGGCCCACTGTC
1831 -TGGCCTCTCCCTAGTGGTCACTGAGGTGGCCACCAGAGGAGTGGCCCTGCGCTCAGGGAAGGCCAAGGCCCTTCAGAACCCCTCTTAC
1921 -CTCACTGTGTCTCTCTCACTGCCCTCTGAGCCCTGCGTTGTGATCAGACCTTAAGGGTCTAGAGGGAGGGGCTCTTCATTAGTCTGCT
2011 -GCCAAGTGAGGCGCTTTTCTGAATAAACTCTTTAGACTTTGTCAA

Figure 2

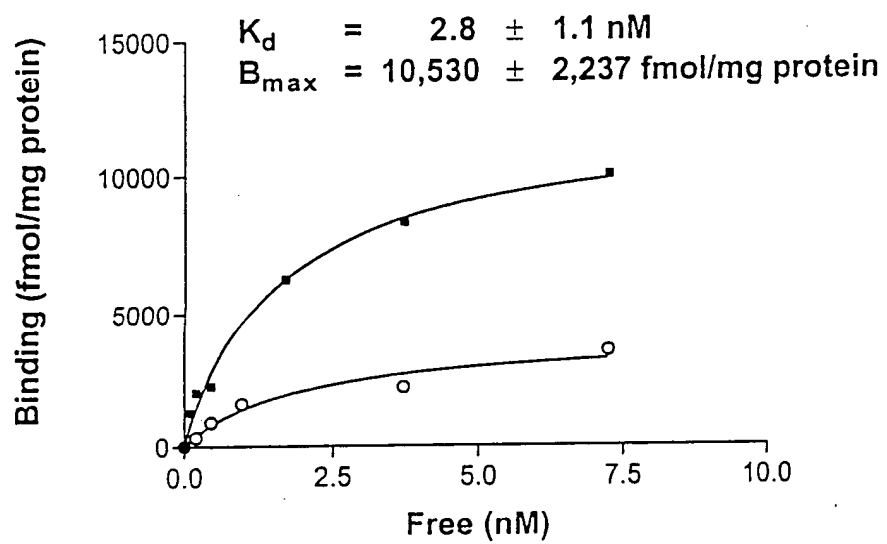


Figure 3

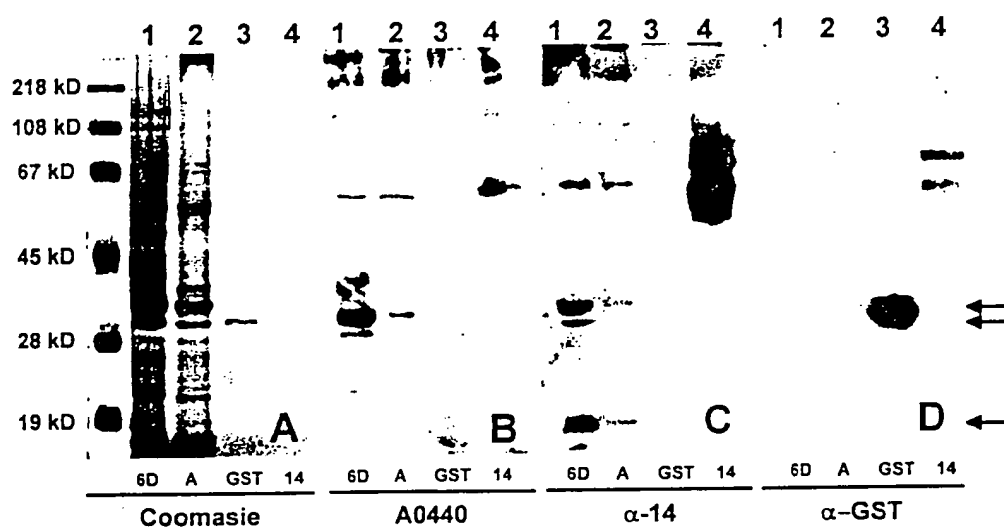


Figure 4

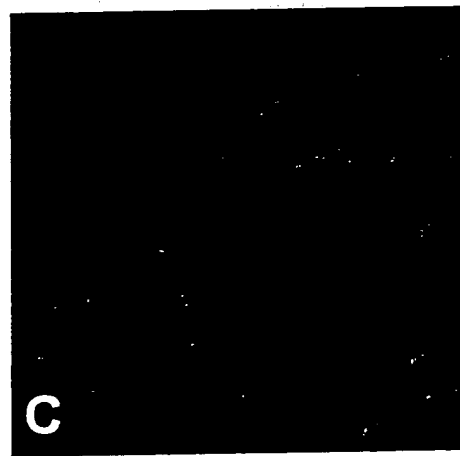
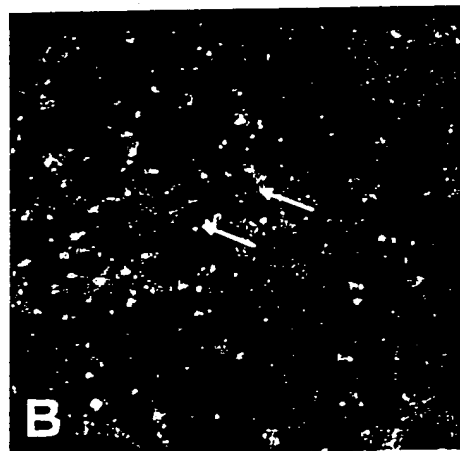
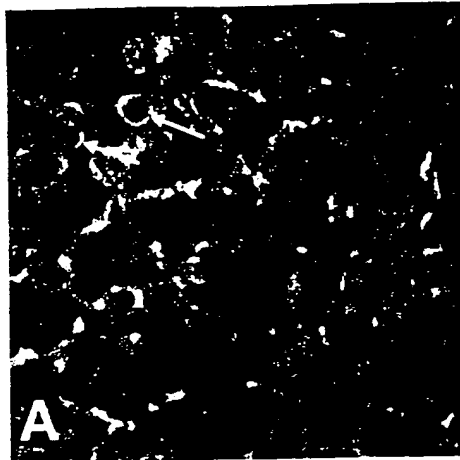


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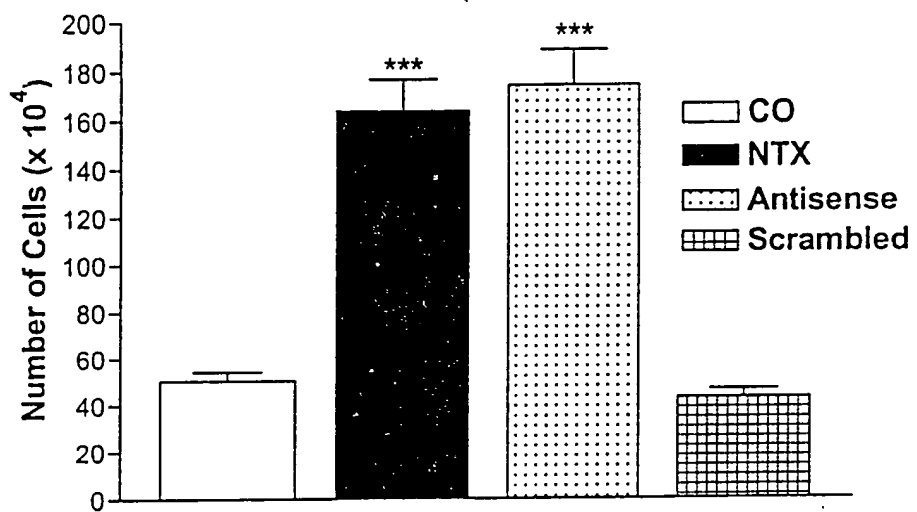


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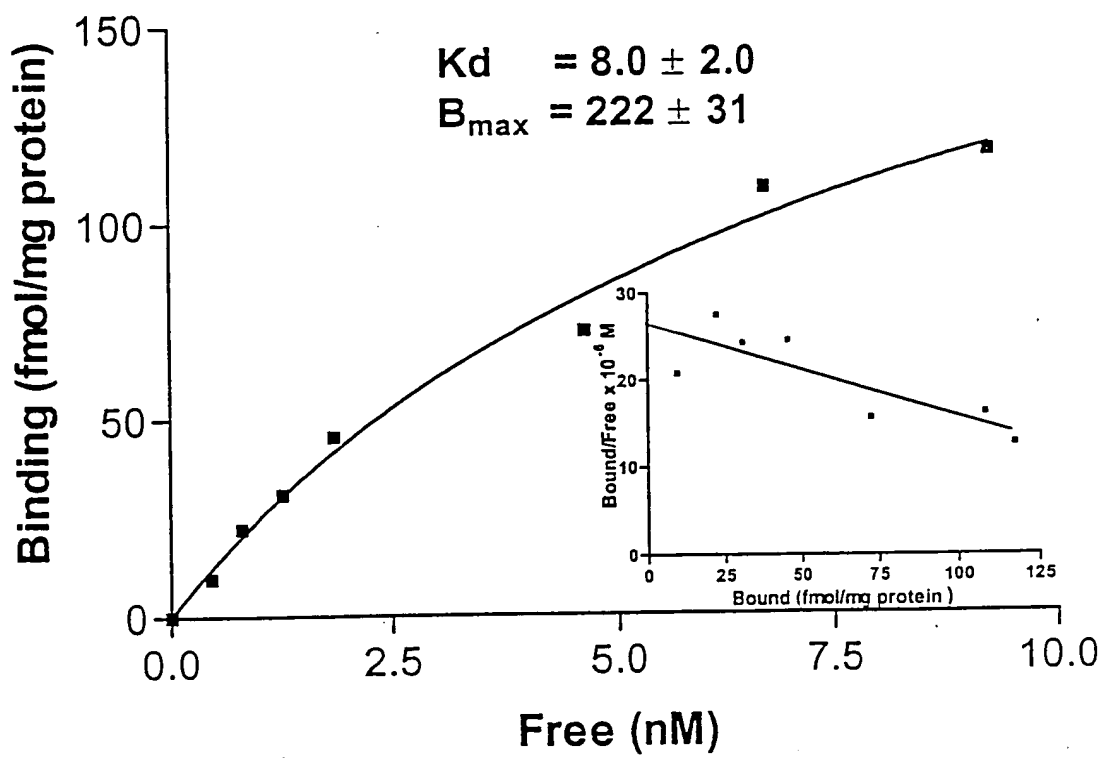


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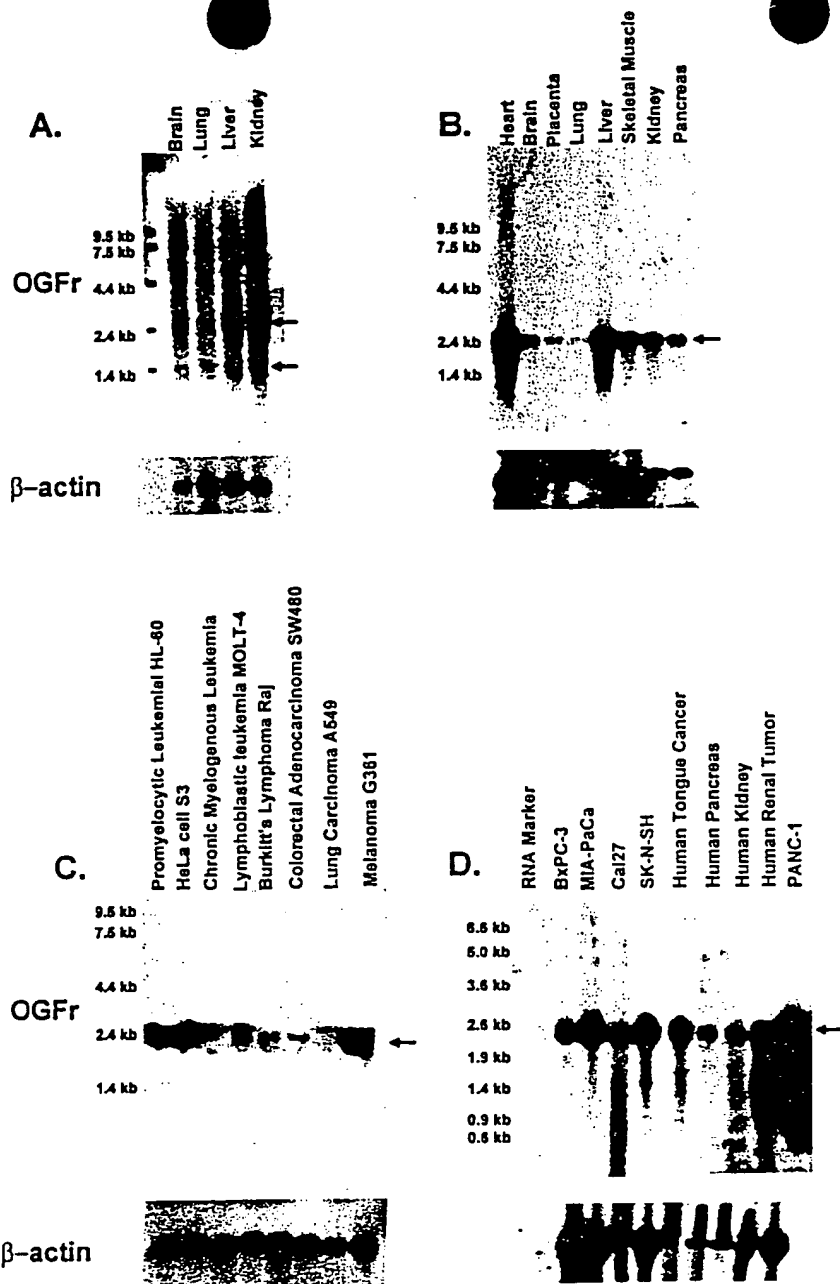


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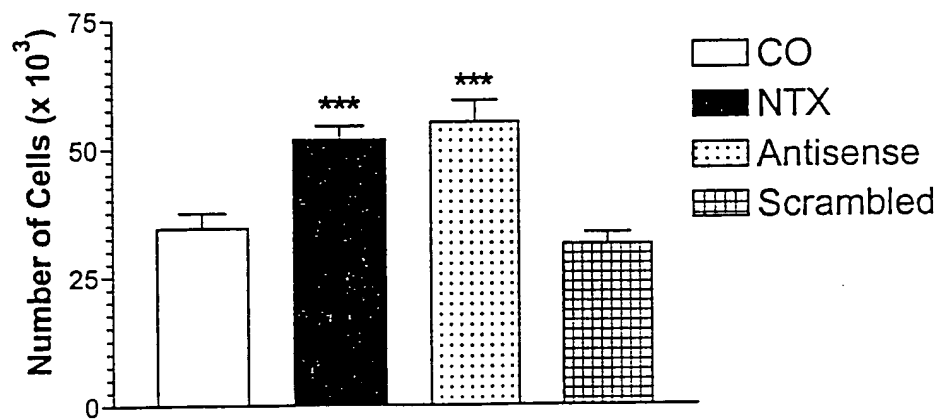


Figure 10

Human and Rat OGFr

| | | | | | | | |
|-------------------------------|-----|---------------------------------|-----|-------------------------------|--|-------------------------------|--|
| 79% Identical/ 87% Similar | | 39.5% Identical/ 56% Similar | | 23% Identical/ 47% Similar | | 20% Identical/ 43% Similar | |
| 1 | 297 | 464 | 629 | 697 | | | |
| Amino Acid Number | | | | | | | |

Figure 11

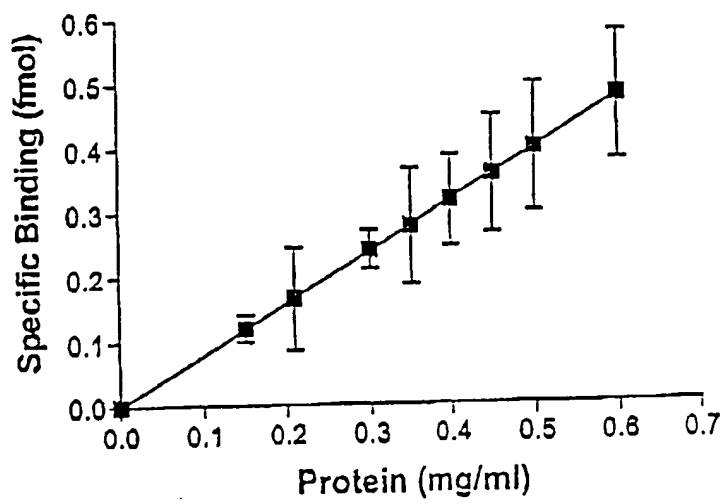


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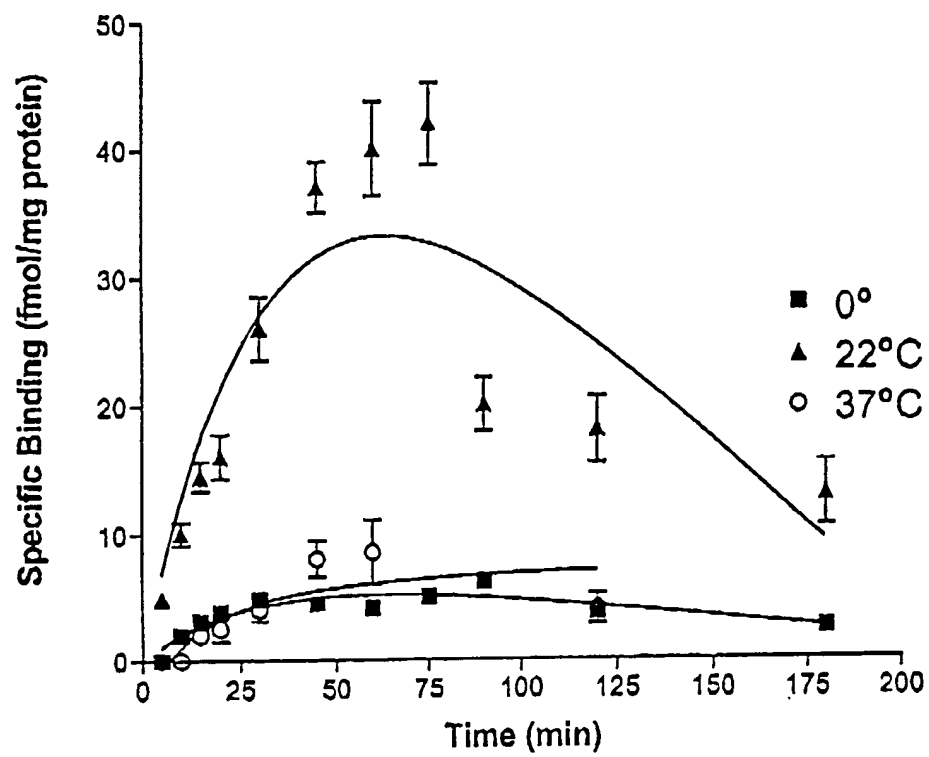


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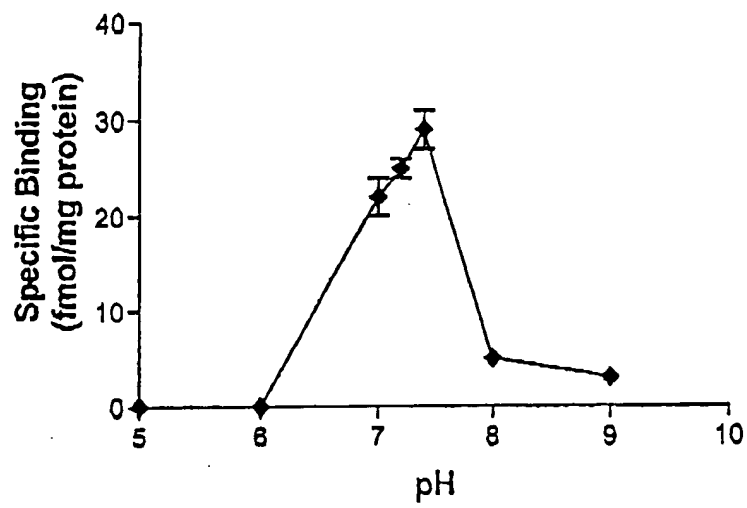


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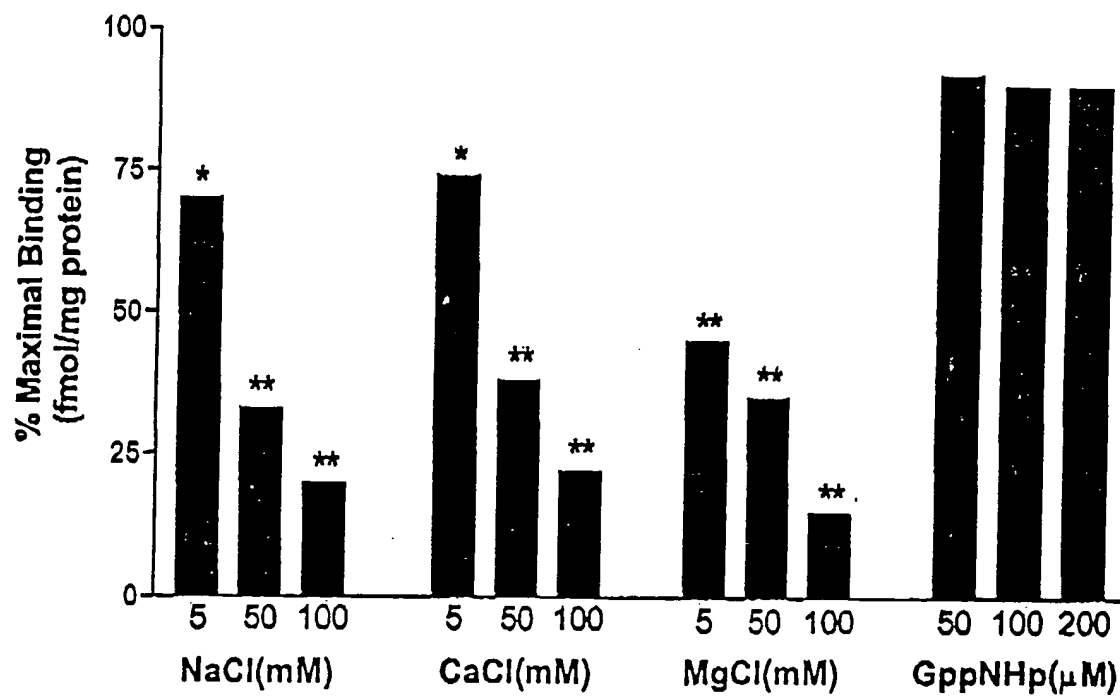


Figure 15

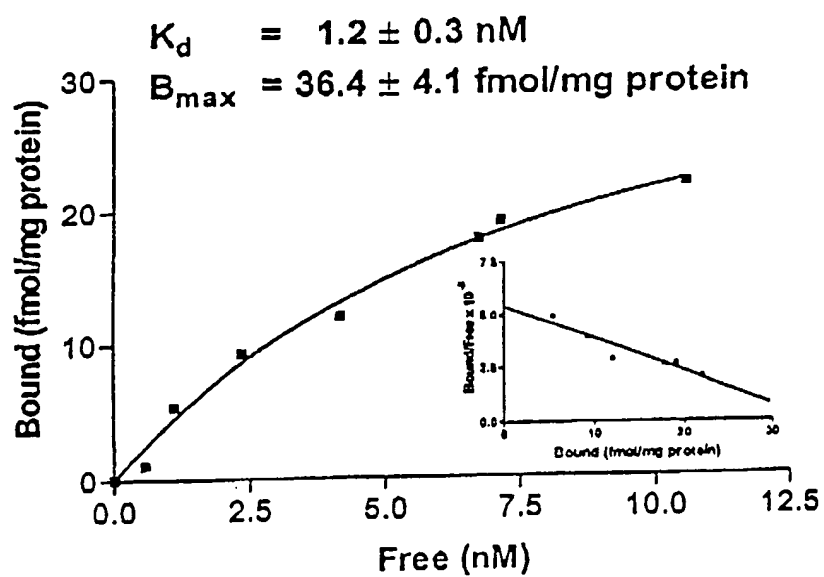


Figure 16